

This listing of claims will replace all versions of claims in the “Substitute specification” marked version :

Listing of Claims:

1. (Currently amended) An optical device ~~in which a~~ comprising:
a dispersive element ~~and~~ operatively arranged to split a first light beam from a first direction into various wavelengths;
an imaging optic ~~define a cleavage plane, in which each light wavelength is assigned a location and in which~~ and,
a microstructured element operatively arranged at a cleavage plane, is positioned which deflects light beams and are focused on locations corresponding to their wavelength, via the imaging optic to the wherein said cleavage plane is defined by said dispersive element and said imaging optic, said cleavage plane defining a position for said various wavelengths, wherein said microstructured element is operatively arranged to deflect said first light beam from said first direction and at least a second light beam from a second direction, said light beams focused via said imaging optic on positions corresponding to their respective wavelength and to said dispersive element, wherein said dispersive element is operatively arranged to collinearly ~~unites~~ unite the said light beams.
2. (Currently amended) The optical device according to Claim 1, ~~characterized in that~~ wherein the light beams have different wavelengths.
3. (Currently amended) The optical device according to Claim 1 ~~one of Claims 1 or 2,~~ wherein ~~characterized in that~~ at least one light beam has multiple wavelengths.
4. (Currently amended) The optical device according to Claim ~~one of Claims 1 through 3,~~ ~~characterized in that~~ wherein the dispersive element comprises means for spectrally cleaving cleaves at least one light beam spatially before the incidence on the microstructured element.

5. (Currently amended) The optical device according to Claim 1 ~~one of Claims 1 through 4,~~
~~wherein characterized in that~~ at least one further dispersive element spectrally cleaves at least
one light beam spatially before the incidence on the microstructured element.

6. (Currently amended) The optical device according to Claim ~~one of Claims 1 through 5,~~
~~characterized in that~~ wherein the dispersive element ~~contains~~ comprises a prism.

7. (Currently amended) The optical device according to ~~one of Claims~~ Claim 1 ~~through 5,~~
~~characterized in that~~ wherein the dispersive element ~~contains~~ comprises a grating.

8. (Currently amended) The optical device according to Claim ~~one of Claims 1 through 7,~~
~~characterized in that~~ wherein the dispersive element comprises the imaging optic.

9. (Currently amended) The optical device according to Claim 1 ~~one of Claims 1 through 8,~~
~~characterized in that~~ wherein the microstructured element ~~has~~ comprises reflecting and
transmitting areas.

10. (Currently amended) The optical device according to Claim 9 ~~one of Claims 1 through 9,~~
~~characterized in that~~ wherein the reflecting areas of the microstructured element ~~has~~ comprise
mirrored surfaces of different inclinations.

11. (Currently amended) The optical device according to Claim 1 ~~one of Claims 1 through~~
~~10, characterized in that~~ wherein the microstructured element ~~contains~~ comprise MEMS
(micro-electromechanical systems) and/or MOEMS (micro-optoelectromechanical systems).

12. (Currently amended) The optical device according to Claim 1 ~~one of Claims 1 through~~
~~11, wherein characterized in that~~ the microstructured element ~~contains~~ comprises a
micromirror array.

13. (Currently amended) The optical device according to ~~one of Claims~~ Claim 1 through 12, ~~characterized in that~~ wherein the microstructured element ~~contains~~ comprises a micropism array.

14. (Currently amended) The optical device according to ~~one of Claims~~ Claim 1 through 12, ~~characterized in that~~ wherein the microstructured element ~~has~~ comprises areas having ~~different~~ varying indices of refraction.

15. (Currently amended) A microscope ~~having~~ comprising an optical device according to ~~one of Claims~~ Claim 1 through 14.

16. (Currently amended) A scanning microscope, ~~which comprises, particularly a confocal scanning microscope, having~~ an optical device for generating an illumination light beam according to ~~one of Claims~~ Claim 1 through 14 for generating an illumination light beam.

17. (New) The scanning microscope according to Claim 16, which is a confocal scanning microscope.

18. (New) A microscope comprising an optical device according to Claim 6.

19. (New) A microscope comprising an optical device according to Claim 7.

20. (New) A microscope comprising an optical device according to Claim 8.

21. (New) A microscope comprising an optical device according to Claim 11.

22. (New) A microscope comprising an optical device according to Claim 12.

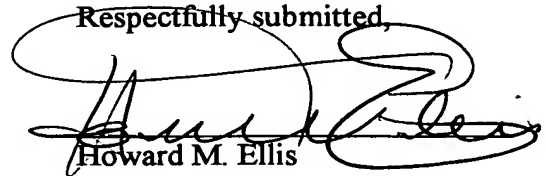
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23. (New) A microscope comprising an optical device according to Claim 13.

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Respectfully submitted,

A handwritten signature in black ink, appearing to read "Howard M. Ellis", written over a large, stylized circular flourish.

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